

AMENDMENTS TO THE SPECIFICATION

Please replace the abstract with the amended abstract. A copy of the amended abstract is attached to this paper.

Please replace the paragraph beginning on line 21 of page 3 with the following amended paragraph:

A method for remote controlling and monitoring home appliances according to the present invention includes the following three steps. In the first step, a first home appliance ~~leads~~ reads the information of a second home appliance and sets communication speed and packet length corresponding to that information. Then, a user command is constituted as a first packet with the preset length and transmitted to the second home appliance at the preset speed. In the second step, the second home appliance corresponding to the first packet receives the first packet and checks if there is an error. If any error is not found in the first packet, the command of the first packet is performed and the second packet of ACK is constituted. On the other hand, if an error is found in the first packet, the second packet of NAK is constituted. Then one of the constituted second packets is transmitted to the first home appliance. In the third step, the first home appliance checks whether the second packet is received and then, according to the result, transmits the next packet or retransmits the first packet.

Please replace the paragraph beginning on line 21 of page 5 with the following amended paragraph:

FIG. 3 is a block diagram illustrating constructions of the master and slave. The master for dealing with a received message and transmitting a message includes an application layer 4, a data connecting layer 5, and a physical layer 6. The application layer 4 performs functions of

processing input data from a user interface (UI), producing a command code, dealing with return arguments from the ~~salve~~ slave, and transmitting the result to the data connecting layer 5. The data connecting layer 5 performs functions of constituting a packet by being provided with a command and arguments in the message from the application layer 4, producing and displaying a ~~CRC~~ Cyclic Redundancy Check (CRC) for error checking, and displaying the message as the preset frequency if any error is found in the transmitted packet after receiving a reply packet. The physical layer 6 performs functions of checking an address ~~by~~ upon receiving the packet (e.g., slave's reply packet) ~~demanded~~ from the data connecting layer 5, and determining whether a communication line path (bus line) between the master and slave is vacant to transmit and receive the packet to and from a ~~UART~~ Universal Asynchronous Receiver/Transmitter (UART) terminal.

Please replace the paragraph beginning on line 10 of page 6 with the following amended paragraph:

In the mean time, the slave includes an application layer 4a, a data connecting layer 5a, and a physical layer 6a. The application layer 4a carries out a command from the master and replies the result. The data connecting layer 5a performs functions of constituting a packet according to the reply from the application layer 4a, producing and displaying a CRC for error checking, and displaying the received order and arguments on the application layer 4a. The physical layer 6a performs functions of receiving the packet (e.g., the master's packet) ~~demanded~~ from the data connecting layer 5a, checking its address, determining whether a communication line path (bus line) between the master and slave is vacant to transmit the packet to a UART terminal, and transmitting the received packet from the master to the data connecting layer 5a.

Please replace the paragraph beginning on line 24 of page 6 with the following amended paragraph:

As shown in FIG. 4, a UART port transmits ~~8-Bit~~ 8 bits after an allotted start bit in a descending order from the smallest value. At this time, the default value of the transmission speed is about 2400 bps within a changeable range of 110-38400 bps.

Please replace the paragraph beginning on line 19 of page 7 with the following amended paragraph:

Accordingly, the packet message ~~demanded~~ sent by the master is constituted with a "command code" showing a command from the master to the slave and a "factor" or factor code showing arguments required for the slave to perform the command. The return packet message ~~form~~ from the slave to the master is constituted with a "command code copy" from the master and "ACK/NAK code" and "return arguments or error code" showing whether the packet from the master is successively received and performed or not received.

Please replace the paragraph beginning on line 20 of page 8 with the following amended paragraph:

The packet having the above-described construction is transmitted (S 4). For a preset time period (10 sec) after the transmission, it is checked whether a reply packet for the transmitted packet is received. If the reply packet is received (S5), it is checked whether the packet is an ACK packet or a NAK packet (S6) ~~and the packet is repeatedly transmitted (S5, S6, and S7).~~ In other words, the packet is transmitted three times maximum if If the reply packet is not received for a preset time period (S5), the packet is transmitted for a maximum of three times. If the reply packet is the NAK packet showing an error (S6), it is determined whether the

error is a CRC error for checking the error of the packet. If the reply packet ~~is the~~ has a CRC error (S7), the packet is transmitted for a maximum of three times. ~~maximum (S7) but if it is not,~~
If the error is not a CRC error, the error is treated as a reply error and the received error is
processed (S8).